

Elegant design with the high performance heating technology of tomorrow - today



Electric Combination Radiator Systems



**LUCHT LHZ**  
Elektroheizung GmbH & Co. KG

# An elegant solution for all heating



The LHZ Combination Electric radiators have been designed using the latest technology to create an elegant solution for all hard to heat situations, They can be installed in almost any location due to the flexibility of the product.

The range has been developed to provide an adaptable solution for electric heating in Domestic properties, Conservatories, Holiday homes, Offices and any other temporary heating situation.

Our unique patented 'Magmatic' heating tablets provide the source for the radiator. Whilst the radiator is classed as a 100% efficient Direct Acting appliance, the heating

tablets provide partial storage to prolong your heating comfort and to reduce running costs. The radiator has a robust body which incorporates a spot welded high fin surface area to ensure that there are no contraction noises during the heating cycle. The high fin design boasts 6 times the normal radiator surface area to provide a balance of Convection and Radiant heat for your added comfort.

The radiators can be simply plugged in to a standard socket or hard wired to an existing

spur connection. The range has the flexibility of being wall mounted or free standing on castors or feet.

For added versatility we can supply conservatory radiators which are also ideal for use below windows with low sills.

All our standard model sizes are supplied with a TEI manual room thermostat. For a fully controllable central heating system, the radiators can be installed with our LHZ Control Box, Single Channel Programmer and Room Thermostat to comply with the latest Building Regulations.

In addition to the above we also supply Radio Frequency radiators which provide all



# s i t u a t i o n s

the benefits of the standard version however the control wiring is eliminated.

These models can be controlled by our TEI 6 and TEI 8 RF thermostat.

Furthermore we also supply LHZ radiators with an integral TDI digital thermostat that can be programmed 24 hours, 7 days a week. All LHZ radiators are manufactured in Germany to the highest safety and quality standards. Each radiator is CE Marked and ENEC Marked and carries all the necessary European Approvals. Each radiator is fully checked and tested prior to leaving the factory and as such is packed with full Quality certification.

We hope that you find the superior products within this brochure of interest and we look forward to being of assistance to you in the near future.

# Electric Combination Radiators



The LHZ Electric Radiators have been accepted as a practical modern solution to other forms of inefficient heating throughout the world for many years. Their success is due largely to the following features and benefits:

- Ease of Installation
- Safe, clean and easy to operate
- Fully controllable by either manual or digitally controlled (TDI) thermostats.
- Various outputs and sizes are available from 500w - 2800w
- No maintenance required 100% efficient
- These Slimline Radiators are 70mm deep
- Radiators can be simply plugged in or fused spurred
- All radiators are supplied with wall fixing brackets
- Castors or feet stands can be ordered as optional extras
- Each radiator is supplied with 1.5m length cable
- All radiators are powder coated both internally and externally in white to RAL 9003

As our products are of such superior quality we are proud to offer a **12 year warranty** on our radiators and a **2 year warranty** on the electronics across our full range of LHZ Electric Combination Radiators.



High performance - whatever

1.8kW Tall Radiator



t h e   s p a c e

1.2kW Tall Radiator

They look like conventional “wet” system radiators, heat up and operate like “wet” system radiators and all without the requirement of a central heating boiler.

The range has been developed to accommodate the smallest easy-to-heat room to the larger hard-to-heat room. Should you select our products you will be highly impressed by the performance and effectiveness of the electric radiators.

**We currently sell the radiators as heating solutions to a wide range of markets which include the following:**

- Domestic Properties
- Properties with no access to Natural Gas
- Conservatories
- Sunrooms
- Holiday homes, Parkhomes and Caravans
- Hotels and Pubs
- Offices
- Portable Offices
- Temporary Heating purposes
- Social Housing Contracts

# Internal Construction and Fixing Accessories



Magnetic tile with thermocouples



Integral TDI Digitally controlled thermostat



Each standard radiator has a TDI thermostat fitted which regulates the temperature in each room



High Fin Surface



Feet Stands



Castors



Installation kit for wall fastening supplied as standard

Our unique combination radiators are designed to store the heat directly into the Magmatic Heat-Retention Tablets, without any loss of energy.

When the LHZ Radiators have achieved their required temperature the thermostat will cut the power to the Radiator. The Radiator will continue to provide heat, (that has been stored in the Magmatic

## Method of Operation

tablets), for up to 45 minutes with no further use of electricity. The Radiators will use approximately 20 – 30 minutes of electricity per hour, depending upon on the building fabric and the severity of the outside temperature.

### Magmatic® 2010 Storage Stone

The heating conductors are produced from high quality chrome-nickel steel (resistant to scaling up to 1100 °C) which are moulded into the Magmatic tablet. The contacts inside the radiators are protected with heat shrinkable insulated sleeves to ensure optimum safety. Two thermocouples within each radiator provide twin overheat protection for additional safety.

21°C

hot air

20°C

comfortable warm floor temperature

## Bathroom Radiators - IPX4 Rated Models



1.2kW tall radiator with towel rails



1.2kW bathroom radiator with chrome or white towel rails



600w chrome towel rail



600w standard radiator

All LHZ Bathroom Radiators, up to an output of 1.5kW, are IPX4 rated and are therefore tested and approved for use in all bathroom situations. Please consult a qualified electrician or refer to IEE Wiring Regulations 17th Edition for latest regulations.

# Conservatory Radiators



To compliment your existing heating system LHZ have produced a selection of electric radiators to heat your conservatory which are all 340 mm high. With the option of wall mounting, floor standing or castors you have the facility to place your radiator anywhere within your conservatory. They can be controlled by either the manual TEI I Thermostat or by the integral digital TDI programmable thermostat.





## Control Options

LHZ Radiators can be controlled by a number of different options dependent on the installation circumstances. They can be installed as stand alone heaters or as a controllable central heating system using either an integral TEI I or TDI thermostat or alternatively an external TEI 6 Thermostat.

**The options are shown opposite.**

(Please note that the LHZ Control Box and TDI method of control complies with the latest Building Regulations and 17th Edition)

**LHZ Control Box –**

This method of control is also suitable for standard models where multiple radiators are required. In addition to the Control Box you will also require a Single Channel Heat Pack (see schematic).

# LHZ Control Box



LHZ Control box



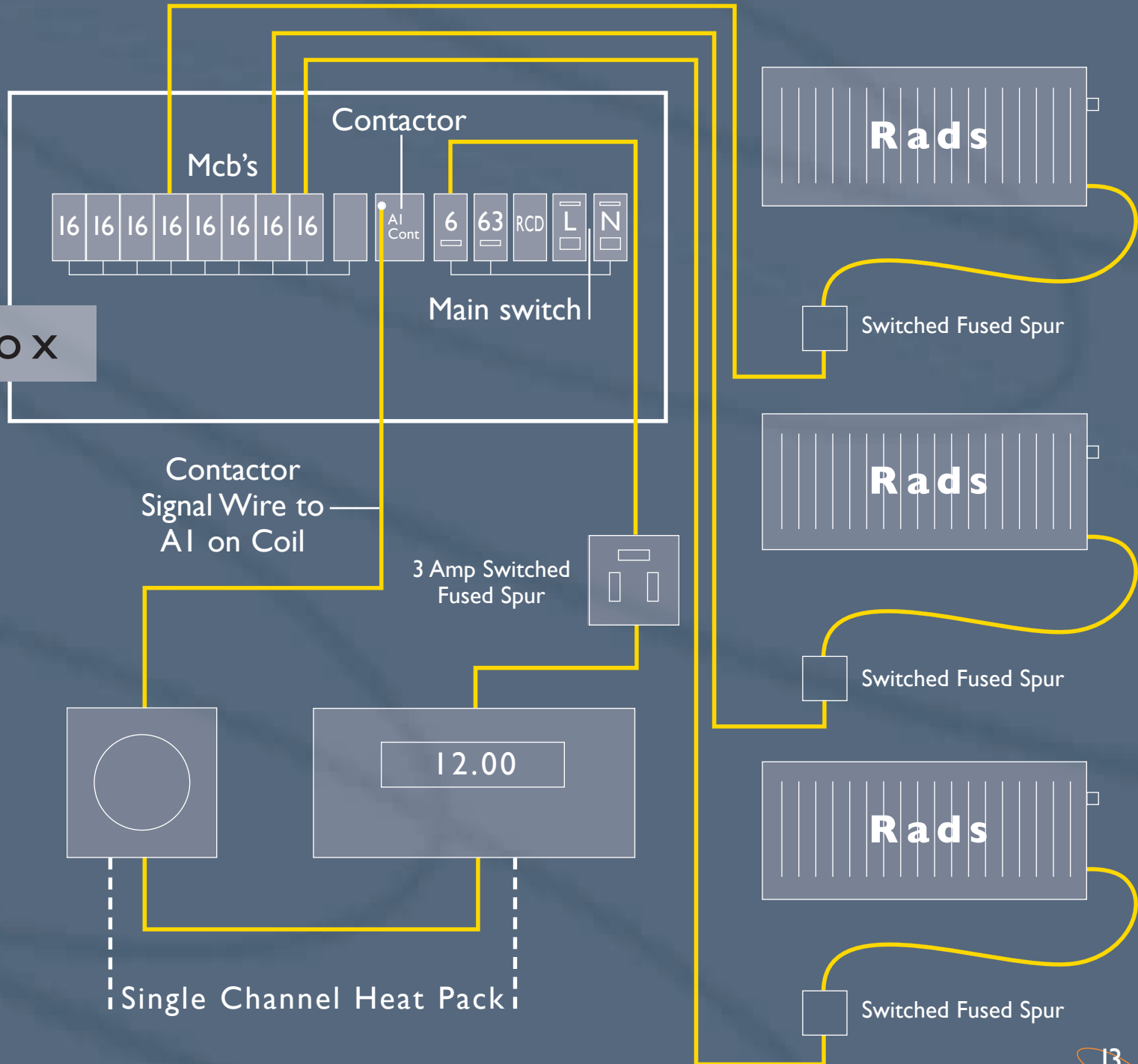
Single Channel Heatpack

**Typical Radiator Installation**

(Neutral wiring has not been shown for clarity reasons)  
Control Wiring: 1.0 mm Twin and earth

Radiator Wiring: 2.5 mm Twin and earth  
All Wiring must comply with current IEE Regulations  
17th edition: 1st July 2008 - BS 7671

For illustration purposes only



# T D I Features



## Comfort Temp:

Indicates the required Comfort Temperature



## Programming Mode:

The radiator can be programmed 24 hours / 7 days at required temperatures.



## Automatic Mode:

Once selected the radiator will follow the program set in programming mode



## Economy Temp:

The Economy setting default is 3.5 deg lower than the comfort setting. The Economy setting can be set up to 10°C lower than the comfort temperature.



## Timer / Boost Mode:

This boost facility can be used to overwrite the programming mode. Temperature can be set between 5°C and 30°C for 30 mins to 72 hours



## Heating Demand Mode:

The ON icon displayed indicates that the radiator is in heating demand mode.



## Frost Protection:

Frost protection temperature can be set between 5°C and 15°C

## Other features

Keypad locking function

Holiday Mode – the radiator can be set to “OFF” for the period of your holiday

Backlight timeout setting – the timeout of the backlight can be set between 0-225 seconds.

# Technical Specification

Model No.		Description	Colour	Rating	DIMENSIONS			
Manual	Radio Frequency				BTU's	Width (mm)	Height (mm)	Depth (mm)
<b>STANDARD RADIATORS</b>								
D500.38.63	D500.38.63RF	500watt ELECTRIC RADIATOR	White	1706	380	630	70	22
D600.38.63	D600.38.63RF	800watt ELECTRIC RADIATOR	White	2730	380	630	70	22
D1000.68.63	D1000.68.63RF	1000watt ELECTRIC RADIATOR	White	3412	680	630	70	36
D1200.68.63	D1200.68.63RF	1200watt ELECTRIC RADIATOR	White	3412	680	630	70	36
D1500.98.63	D1500.98.63RF	1500watt ELECTRIC RADIATOR	White	5118	980	630	70	50
D1800.98.63	D1800.98.63RF	1800watt ELECTRIC RADIATOR	White	5118	980	630	70	50
D2000.128.63	D2000.128.63RF	2000watt ELECTRIC RADIATOR	White	6824	1280	630	70	62
D2400.128.63	D2400.128.63RF	2400watt ELECTRIC RADIATOR	White	8189	1280	630	70	62
D2800.158.63	D2800.158.63RF	2800watt ELECTRIC RADIATOR	White	8189	1580	630	70	62
<b>CONSERVATORY RADIATORS</b>								
D500.68.34	D500.68.34RF	500watt ELECTRIC CONSERVATORY RAD	White	1706	680	340	70	21
D1000.85.34	D1000.85.34RF	1000watt ELECTRIC CONSERVATORY RAD	White	3412	850	340	70	24,5
D1600.128.34	D1600.128.34RF	1600watt ELECTRIC CONSERVATORY RAD	White	5459	1280	340	70	34,5
D2000.158.34	D2000.158.34RF	2000watt ELECTRIC CONSERVATORY RAD	White	6824	1580	340	70	38
<b>TALL RADIATORS</b>								
D1200.38.124		1200watt ELECTRIC RADIATOR	White	4094	380	1240	70	35
D1800.55.124		1800watt ELECTRIC RADIATOR	White	6142	550	1240	70	58
<b>TOWEL RAILS</b>								
2003.06WE ( WHITE RAILS )		1200watt ELECTRIC TOWEL RADIATOR	White	4094	640	1020	140	33
2003.06WEC ( CHROME RAILS )		1200watt ELECTRIC TOWEL RADIATOR	White	4094	640	1020	140	33
<b>BATHROOM RADIATORS (IPX4)</b>								
D600.38.63IPX4	D600.38.63IPX4RF	600watt ELECTRIC BATHROOM RADIATOR	White	2047	380	630	70	22
D1000.68.63IPX4	D1000.68.63IPX4RF	1000watt ELECTRIC BATHROOM RADIATOR	White	3412	680	630	70	36
<b>ACCESSORIES &amp; CONTROLS</b>								
CAST/I D		RADIATOR CASTORS						
FEET/I D		RADIATOR FEET						
S/PACK/I D		SINGLE CHANNEL HEATPACK						
TEI 6 D		MILUX R/F CONTROLLER						
TEI 8 D		R/F DIGITAL THERMOSTAT						
NSPE 3839/3 D		5 Way CONTROL BOX						
NSPE 3839/1 D		8 Way CONTROL BOX						
NSPE 3839/2 D		2 Way CONTROL BOX						

# Distribution network europe



## Head Office and Production in Germany

**Austria**

**Belgium**

**Bulgaria**

**Croatia**

**Czech Republic**

**France**

**Greece/Cyprus**

**Ireland**

**Netherlands**

**Poland**

**Portugal**

**Slovenia**

**Spain**

**Switzerland**

**Turkey**

**United Kingdom**

## worldwide

**Australia**

**Canada**

**New Zealand**

**South Africa**



- Europe-wide applicable
- Safety tested
- Production controlled

LUCHT LHZ Elektroheizung GmbH & Co. KG delivers premier heating products across the world. Our range of LHZ Combination Radiators are produced in Germany and comply with the appropriate standards of the European Union and Certificate Institutes.



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Disclaimer – All figures quoted are correct at the time of printing and may be subject to change